

LAKE: LONG L (VLMP LEA)
 TOWN: BRIDGTON
 COUNTY: CUMBERLAND

MIDAS: 5780
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

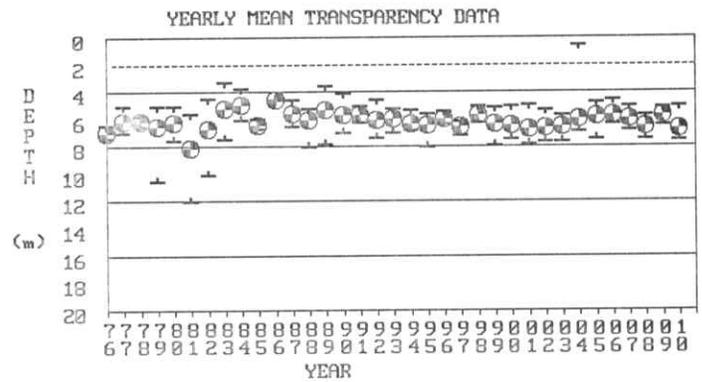
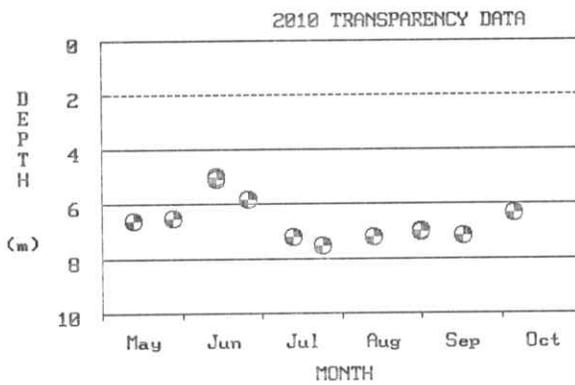
MAX. DEPTH: 18 m. (59 ft.)
 MEAN DEPTH: 7 m. (23 ft.)
 DELORME ATLAS #: 04
 USGS QUAD: BRIDGTON
 IFW REGION A: Sebago Lake (Gray)
 IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 2097.0 ha. (5181.6 a.)
 FLUSHING RATE: 0.94 flushes/yr.
 VOLUME: 160013184.0 cu. m. (129802 ac.-ft.)
 DIRECT DRAINAGE AREA: 138.33 sq. km. (53.41 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. LONG L has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



WATER QUALITY SUMMARY

LONG LAKE, BRIDGTON

Midas: 5780, Basin 1, Sample Station 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algae blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Long Lake have been collected since 1976. During this period, 20 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Long Lake is considered to be slightly above average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Long Lake is low.

Water Quality Measures: Long Lake is a non-colored lake (average color 17 SPU) with an average SDT of 6.1m (20.0ft). The range of water column TP for Long Lake is 1-11 parts per billion (ppb) with an average of 7 ppb, while Chla ranges from 0.6-8.7 ppb with an average of 2.8 ppb. Dissolved oxygen (DO) profiles show low to moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low to moderate. Oxygen levels below 5 parts per million stress certain cold water fish, and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species.

Long Lake is monitored in cooperation with Lakes Environmental Association (LEA) of Bridgton. LEA is very active in lake protection activities in the region and can be contacted at (207) 647-8580.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: long5780_01, Revised: 03/06, By: jp

LAKE: LONG L (VLMP LEA)
 TOWN: BRIDGTON
 COUNTY: CUMBERLAND

MIDAS: 5780
 TRUE BASIN: 1
 SAMPLE STATION: 2

WHOLE LAKE INFORMATION

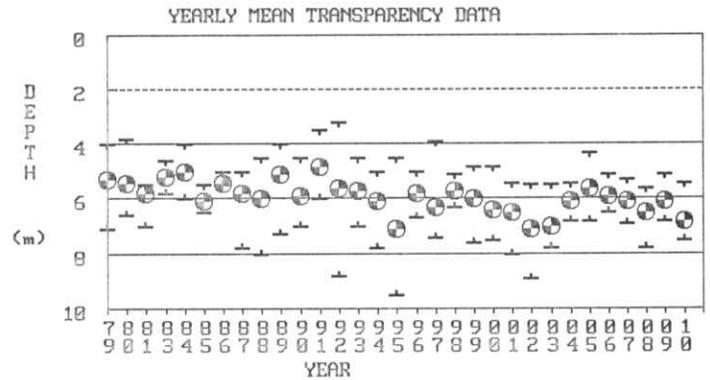
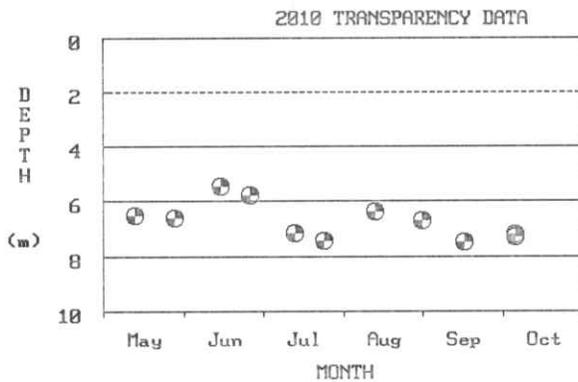
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 MEAN DEPTH: 7 m. (23 ft.)
 DELORME ATLAS #: 04
 USGS QUAD: BRIDGTON
 IFW REGION A: Sebago Lake (Gray)
 IFW FISH. MANAGEMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS

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SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN	MEAN	MEAN	MEAN	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	COLOR	pH	ALK	COND.	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI PHOS		SEC	CHL
	(SPU)		(mg/l)	(uS	/cm)	CORE	GRAB	GRAB	GRAB							C	G		
1978	20	6.80	6.0	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	4.0	5.3	7.1	4	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	3.8	5.4	6.6	5	-	-	-	-	-	44	-
1981	-	-	-	-	-	-	-	-	5.5	5.8	7.0	4	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	4.6	5.2	5.8	5	-	-	-	-	-	46	-
1984	-	-	-	-	-	-	-	-	4.0	5.0	6.0	2	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	5.5	6.1	6.5	4	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	5.0	5.4	5.5	3	-	-	-	-	-	-	-
1987	17	7.60	9.0	45	4	-	-	-	5.0	5.8	7.8	4	-	-	-	-	-	-	-
1988	18	6.55	10.2	-	9	-	9	-	4.5	6.0	8.0	5	2.4	2.5	2.5	40	-	39	-
1989	-	-	-	-	-	-	6	6	4.0	5.1	7.3	5	0.8	2.2	3.5	-	31	47	-
1990	-	6.60	9.0	-	-	-	-	-	4.5	5.9	7.0	4	-	-	-	-	-	-	-
1991	-	-	-	-	6	-	4	4	3.5	4.8	6.0	6	1.9	1.9	1.9	-	-	50	-
1992	-	-	-	-	-	-	6	6	3.2	5.6	8.8	5	3.2	3.2	3.2	-	-	43	-
1993	-	7.02	14.0	-	6	-	6	6	4.5	5.7	7.0	5	3.6	3.6	3.6	-	-	42	-

WATER QUALITY SUMMARY

LONG LAKE, BRIDGTON

Midas: 5780, Basin 1, Sample Station 2

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algae blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Long Lake, sampling station #2, have been collected since 1979. During this period, 17 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Long Lake is considered to be slightly above average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Long Lake is low.

Water Quality Measures: Long Lake, sampling station #2, is non-colored (average color 17 SPU) with an average SDT of 5.9m (19.5ft). The range of water column TP for Long Lake is 4-9 parts per billion (ppb) with an average of 7 ppb, while Chla ranges from 0.8-7.6 ppb with an average of 2.9 ppb. Dissolved oxygen (DO) profiles show low to moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low to moderate. Oxygen levels below 5 parts per million stress certain cold water fish, and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species.

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Filename: long5780_02, Revised: 03/2006, By: JP

LAKE: LONG L (VLMP LEA)
 TOWN: BRIDGTON
 COUNTY: CUMBERLAND

MIDAS: 5780
 TRUE BASIN: 1
 SAMPLE STATION: 3

WHOLE LAKE INFORMATION

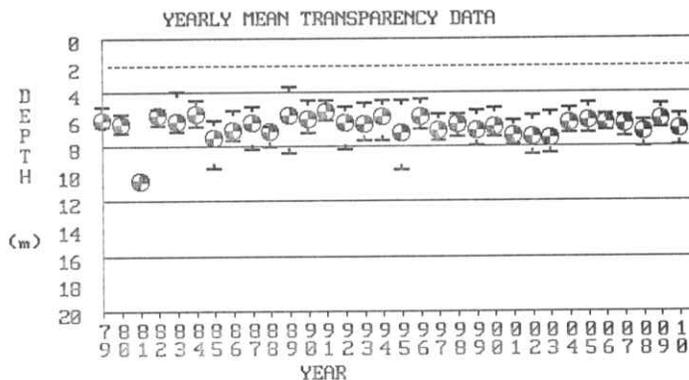
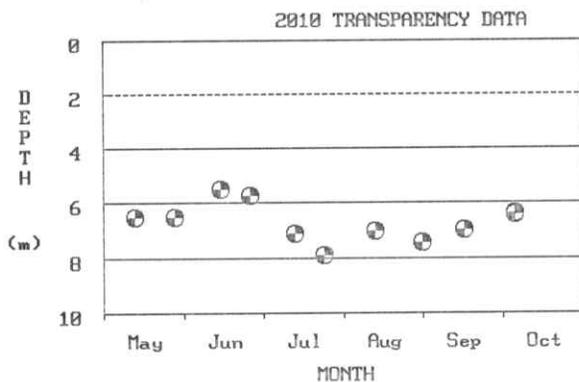
MAX. DEPTH: 18 m. (59 ft.)
 MEAN DEPTH: 7 m. (23 ft.)
 DELORME ATLAS #: 04
 USGS QUAD: BRIDGTON
 IFW REGION A: Sebago Lake (Gray)
 IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 2097.0 ha. (5181.6 a.)
 FLUSHING RATE: 0.94 flushes/yr.
 VOLUME: 160013184.0 cu. m. (129802 ac.-ft.)
 DIRECT DRAINAGE AREA: 138.33 sq. km. (53.41 sq. mi.)

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SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	(SPU)		(mg/l)	(uS	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
				/cm)	CORE	GRAB	GRAB	GRAB											
1979	-	-	-	-	-	-	-	-	5.0	6.0	6.5	4	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	5.5	6.3	7.0	3	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	10.5	10.5	10.5	1	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	5.2	5.7	6.4	4	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	3.9	6.1	6.9	6	-	-	-	-	-	38	-
1984	22	7.00	5.8	-	5	-	8	-	4.5	5.5	6.5	5	4.4	4.4	4.4	-	-	43	-
1985	-	-	-	-	-	-	-	-	6.0	7.3	9.5	6	-	-	-	-	-	30	-
1986	-	-	-	-	-	-	-	-	5.3	6.8	7.5	6	-	-	-	-	-	33	-
1987	15	7.70	9.0	48	5	-	6	-	5.0	6.2	8.2	6	-	-	-	-	-	37	-
1988	16	6.50	10.5	-	13	-	10	-	6.5	6.9	8.0	5	2.2	2.2	2.2	50	-	32	-
1989	-	-	-	-	-	-	6	7	3.5	5.7	8.4	4	1.0	2.3	3.0	-	33	-	-
1990	-	6.66	7.7	-	-	-	-	-	4.5	5.9	7.0	4	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	6	-	4.5	5.4	6.0	5	2.0	2.0	2.0	-	-	44	-
1992	-	-	-	-	-	-	6	5	5.0	6.2	8.2	5	2.4	2.4	2.4	-	-	37	-
1993	-	6.92	9.0	-	7	-	6	7	4.7	6.3	7.5	4	-	-	-	-	-	-	-

WATER QUALITY SUMMARY

LONG LAKE, BRIDGTON

Midas: 5780, Basin 1, Sample Station 3

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algae blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Long Lake, sampling station #3, have been collected since 1979. During this period, 17 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Long Lake, sampling station #3, is considered to be slightly above average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Long Lake is low.

Water Quality Measures: Long Lake, sampling station #3, is non-colored (average color 17 SPU) with an average SDT of 6.5m (21.2ft). The range of water column TP for Long Lake is 4-13 parts per billion (ppb) with an average of 7 ppb, while Chla ranges from 1.0-7.7 ppb with an average of 2.9 ppb. Dissolved oxygen (DO) profiles show low to moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low to moderate. Oxygen levels below 5 parts per million stress certain cold water fish, and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species.

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